

WHAT IS CLAIMED IS:

1 1. An insole stimulating device for activating muscular contraction, stimulating
2 vital points of a human body and enhance local intercellular ion circulation, the
3 stimulating device comprising:

4 a fixing element;

5 electrical plates received in the fixing element;

6 a thermal device received in the fixing element; and

7 a control circuit electrically connected to the electrical plates and the thermal
8 device to generate low frequency signal to the electrical plates such that when the
9 electrical plates are placed on top of the vital points, the low frequency signal to the
10 electrical plates is able to provide stimulus to the vital points and to stimulate and
11 provide a thermal effect to surrounding tissues and muscles.

12 2. The stimulating device as claimed in claim 1, wherein the fixing element is
13 composed of an insole and a pad securely connected to the insole, the resistance is
14 received in the insole and the electrical plates are received in the pad.

15 3. The stimulating device as claimed in claim 1 further comprising magnetic units
16 each corresponding to one of the electrical plates.

17 4. The stimulating device as claimed in claim 2 further comprising magnetic units
18 each corresponding to one of the electrical plates.

19 5. The stimulating device as claimed in claim 1, wherein the fixing element is made
20 of an elastic cloth adapted to be worn on a portion of the human body.

1 6. The stimulating device as claimed in claim 2, wherein the fixing element is made
2 of an elastic cloth adapted to be worn on a portion of the human body.

3 7. The stimulating device as claimed in claim 4, wherein the fixing element is made
4 of an elastic cloth adapted to be worn on a portion of the human body.

5 8. The stimulating device as claimed in claim 1, wherein the control circuit
6 comprises:

7 a signal generating unit composed of a mediate frequency oscillator, a low
8 frequency conversion circuit and a magnitude control circuit, wherein the mediate
9 frequency oscillator generates a mediate frequency signal which is then converted to a
10 low frequency signal by the low frequency conversion circuit, the magnitude control
11 circuit aims to control the strength of the converted low frequency signal to the electrical
12 plates,

13 a power amplifying/boosting circuit, connecting to the output of the signal
14 generating unit, including a power amplifying circuit and a voltage booster, wherein the
15 signal sent by the signal generating unit is processed respectively by the power
16 amplifying circuit and the voltage booster and sent to the electrical plates,

17 a temperature control circuit including an output connecting to the resistance for
18 controlling the temperature of the fixing element;

19 a power source composed of a filter and a transformer, wherein the transformer
20 provides electricity to the resistance via the temperature control circuit and rectifies the
21 current from the filter.

22 9. The stimulating device as claimed in claim 4, wherein the control circuit

1 comprises:

2 a signal generating unit composed of a mediate frequency oscillator, a low
3 frequency conversion circuit and a magnitude control circuit, wherein the mediate
4 frequency oscillator generates a mediate frequency signal which is then converted to a
5 low frequency signal by the low frequency conversion circuit, the magnitude control
6 circuit aims to control the strength of the converted low frequency signal to the electrical
7 plates,

8 a power amplifying/boosting circuit, connecting to the output of the signal
9 generating unit, including a power amplifying circuit and a voltage booster, wherein the
10 signal sent by the signal generating unit is processed respectively by the power
11 amplifying circuit and the voltage booster and sent to the electrical plates,

12 a temperature control circuit including an output connecting to the thermal device
13 for controlling the temperature of the fixing element;

14 a power source composed of a filter and a transformer, wherein the transformer
15 provides electricity to the resistance via the temperature control circuit and rectifies the
16 current from the filter.

17 10. The stimulating device as claimed in claim 1, wherein the electrical plates
18 comprise one positive plate and one negative plate.

19 11. The stimulating device as claimed in claim 1, wherein the electrical plates
20 comprise one positive plate and negative plates.

21 12. The stimulating device as claimed in claim 1, wherein the electrical plates
22 comprise one negative plate and positive plates.

1 13. The stimulating device as claimed in claim 8, wherein the electrical plates
2 comprise one positive plate and one negative plate.

3 14. The stimulating device as claimed in claim 9, wherein the electrical plates
4 comprise one positive plate and one negative plate.